

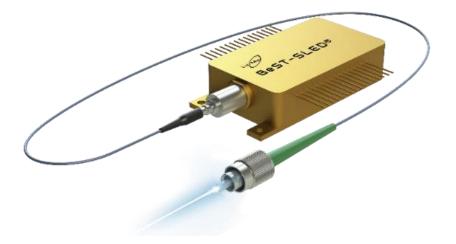
# DATASHEET

# **Multi-Channel Superluminescent Diode Source**

**Optical Spectral Engine (OSE2)** 

32 Pin-Butterfly Package, 2 SLEDs: 1480nm, 1550nm, PM Fiber, High Degree of Polarization, Spectral Coverage: 1435nm-1605nm, FWHM: 170nm, CW:1520nm, Light Output Power >12mW

# Luxmux Part Number: ASM000009



#LTC-OSE2-1480\_1550-PM-HP-1435\_1605-170-1520-12\_DS\_2021\_08\_05 This document is the property of Luxmux, and contains proprietary information. Luxmux reserves the right to make product design or specification changes without notice.





## A. PRODUCT DESCRIPTION

The Optical Spectral Engine (OSE2) ASM000009 is a broadband superluminescent diode (SLED) light source that operates within the near-infrared (NIR) region. It is a compact 32-pin butterfly package that provides an integrated optical interface and one of the highest power-density within the SLED technology industry.

This SLED offers spectral coverage from 1435nm to 1605nm, with up to 12mW of optical power. The temperature of the device is regulated by an integrated thermoelectric cooler (TEC). This light source is compact and easy to use, making it an appropriate fit for many different types of manufactured assemblies requiring light power, including the applications below:

## **B. KEY FEATURES**

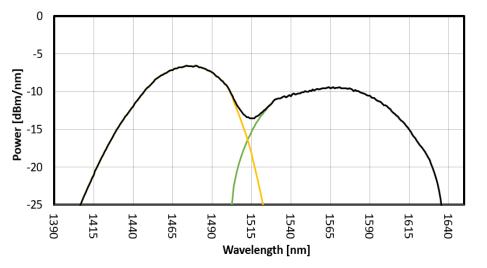
- Two superluminescent diodes (SLEDs)
- All SLEDs can be run from 0 100% of maximum rating
- Output power: >12mW
- Bandwidth FWHM: 170nm
- Light output: FC/APC Connector (Optional FC/PC or SMA)
- Luxmux's patented technology for

## C. APPLICATIONS

- Optical Component Testing
- Telecom Test Equipment
- Medical Optical Coherence Tomography
- Industrial Optical Coherence Tomography
- Metrology

spectral stitching provides optimum power and bandwidth

- Each SLED comes with a built-in independent monitor photodiode and one common thermoelectric cooler (TEC) for all SLEDs
- Biomedical Imaging Systems
- Optical Sensing
- White Light Interferometry & Chromatic Dispersion
- Research and Development





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## D. ABSOLUTE MAXIMUM RATINGS (see note 1)

Parameter	Symbol	Condition	Min.	Max.	Unit
Reverse Voltage (All SLEDs)	VR	CW	-	2	V
Operating current SLED 1 – 1550nm SLED 2 – 1480nm	Юр	CW T <sub>OP</sub> = 25°C T <sub>TEC</sub> = 21°C	-	550 400	mA
Forward Voltage SLED 1 – 1550nm SLED 2 – 1480nm	VF	CW T <sub>OP</sub> = 25°C T <sub>TEC</sub> = 21°C	-	3.0 2.5	V
OSE2 Package Temperature (see note 2)	T <sub>OSE2</sub>		-40	80	°C
SLED Operating Temperature (see note 3)	T <sub>SLED</sub>	I <sub>OP</sub>	0	70	°C
TEC Current	Itec		-	10	А
TEC Voltage	V <sub>TEC</sub>		-	9	V
TEC Temperature	T <sub>TEC</sub>		0	50	°C
Storage Temperature (see note 4)	T <sub>stg</sub>	No condensation, Unbiased	-40	85	°C
Storage Humidity (see note 4)	$RH_{stg}$		5	85	%RH
Electro Static Discharge (ESD)	V <sub>ESD</sub>	Human Body Model	-	500	V
Lead soldering temperature	$T_{Solder}$		-	280	°C
Lead soldering time	$t_{Solder}$		-	10	S

Notes:

1. Please note that exceeding the Absolute Maximum Ratings above may cause device failure. Luxmux does not bear responsibility for laser power damage that is attributed to electrostatic discharge, excessive current levels, and current spikes (transients).

Any attempts to increase the laser drive current above the pre-set limits or recommended specification limits, can damage the device, and nullify the warranty period. It should be emphasized that the current limit set points cannot be exceeded.

- 2. For optimum performance of the Optical Spectral Engine (OSE2), the OSE2 must be operated within the specified temperature ranges. The BeST-SLED has an internal thermoelectric cooler (TEC) but it's always required to mount the OSE2 on an appropriate heatsink, capable of dissipating up to 15W.
- 3. T<sub>TEC</sub> is monitored by internal thermistor with external readout.
- 4. Storage temperature and relative humidity should be chosen so the dew point of the humid air around the package is below the storage temperature of the package, to avoid condensation on the package.

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## E. OPTICAL AND ELECTRICAL SPECIFICATIONS (see note 5)

Parameter	Symbol	Condition	Min.	Тур.	Max.	Unit
Center wavelength (see note 6) SLED 1 – 1550nm SLED 2 – 1480nm SLED 1+2 – 1520nm	CWL	CW T <sub>OP</sub> = 25°C T <sub>TEC</sub> = 21°C	1540 1470 1510	1550 1480 1520	1560 1490 1530	nm
Operating Current SLED 1 – 1550nm SLED 2 – 1480nm	Юр	CW T <sub>OSE2</sub> = 25°C T <sub>TEC</sub> = 21°C	-	-	500 350	mA
Forward Voltage SLED 1 – 1550nm SLED 2 – 1480nm	V <sub>F</sub>	CW T <sub>OSE2</sub> = 25°C T <sub>TEC</sub> = 21°C	-	-	2.5 2.0	V
PM Fiber Coupled Power SLED 1 – 1550nm SLED 2 – 1480nm SLED 1+2 – 1520nm	Ρ	CW Top = 25°C T <sub>TEC</sub> = 21°C Iop	-	5 7 12	-	mW
Bandwidth FWHM (see note 7) SLED 1 – 1550nm SLED 2 – 1480nm SLED 1+2 – 1520nm	Вгwнм	CW Top = 25°C T <sub>TEC</sub> = 21°C Iop	-	80 50 170	-	nm
Bandwidth @-10dB SLED 1 – 1550nm SLED 2 – 1480nm SLED 1+2 – 1520nm	B@10db	CW Top = 25°C T <sub>TEC</sub> = 21°C Iop	-	120 85 200	-	nm
Spectral Coverage	SC	CW T <sub>OP</sub> = 25°C T <sub>TEC</sub> = 21°C I <sub>OP</sub>	-	1435- 1605	-	nm
Spectrum Ripple (see note 8) SLED 1 – 1550nm SLED 2 – 1480nm	R	CW Top = 25°C T <sub>TEC</sub> = 21°C	< 0.15	< 0.30	0.5 0.45	dB
Polarization Extinction Ratio (see note 9)	PER	CW Top = 25°C T <sub>TEC</sub> = 21°C Iop	10	-	-	dB
RIN	RIN		-	< -130	-	dB/Hz
Thermistor Resistance TEC	R <sub>THTEC</sub>	T <sub>OP</sub> = 25°C Τ <sub>TEC</sub> = 21°C	9.5	10.0	10.5	kΩ
Power Dissipation (see note 10)	PDISS	IOP	-	8	-	w
TEC Voltage	V <sub>TEC</sub>		-	-	9	V
TEC Current	I <sub>TEC</sub>		-	-	10	А

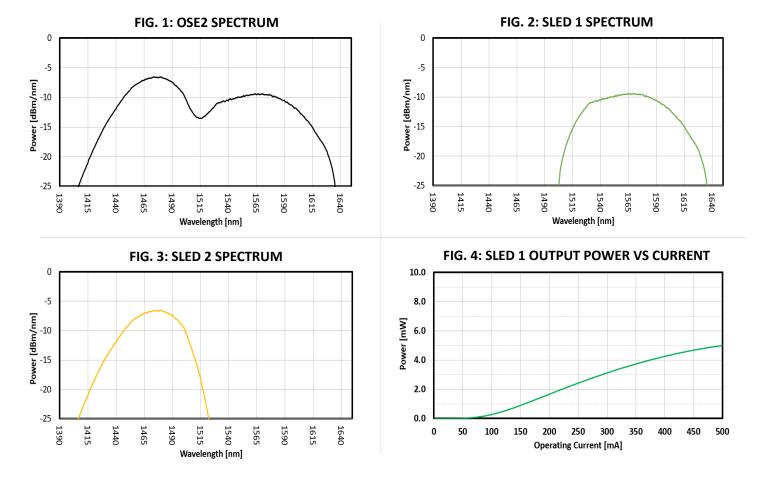
Notes:

5. There may be differences in typical values of output power, power stability, wavelength and bandwidth, due to coupling efficiency. These values are references and there is no guarantee that each particular OSE2 module will have EXACTLY the typical values shown on the previous chart. The specification lists the operating temperature for the electrical/optical characteristics, which is the temperature of the OSE2 during the time that the specifications were measured. Variation in temperature beyond what is specified can have a significant effect on the optical characteristics, like changes in wavelength or drop in output power.

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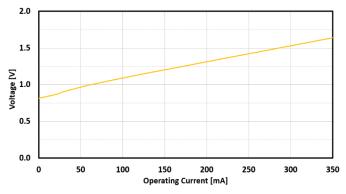
- 6. Center Wavelength is defined as the center point of the 3dB bandwidth of each induvial SLED.
- 7. BeST-SLED FWHM is defined as the bandwidth from the lowest spectral dip, when all the SLEDs are on.
- 8. Resolution of 0.1nm. Figure of merit does not include dips between SLEDs.
- 9. Polarization Extinction Ration is defined as the ratio of optical powers of perpendicular polarizations, expressed in decibels (dB).
- 10. Power dissipation when all SLEDs are on and  $|T_{OSE2} T_{TEC}|$  is 40°C.
- F. PLOTS Test performed at  $T_{OP}$ =25°C and  $T_{TEC}$ =21°C



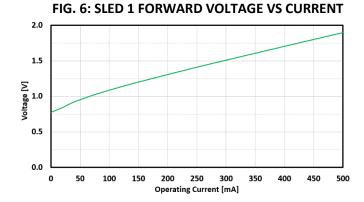
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FIG. 5: SLED 2 OUTPUT POWER VS CURRENT 10.0 8.0 Power [mW] 6.0 4.0 2.0 0.0 50 100 150 200 250 300 350 0 **Operating Current [mA]** 

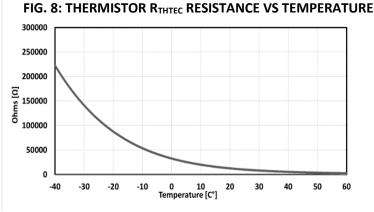
#### FIG. 7: SLED 2 FORWARD VOLTAGE VS CURRENT



**Redefining Spectral Boundaries** 







#### G. PIN OUT

External Pin Assignment – BeST-SLED: 2 SLEDs M-PD1 (+) 1 9 NC 17 TEC (-) 25 NC 2 SLED 1 (-) 10 Thermistor 18 NC 26 NC NC 27 3 SLED 1 (+) 11 Thermistor 19 M-PD2 (-) 12 M-PD1 (-) 20 NC M-PD2 (+) 4 NC 28 5 NC 13 NC 21 NC 29 SLED 2 (-) SLED 2 (+) 6 NC 14 NC 22 NC 30 7 NC 15 NC 23 NC 31 NC 8 NC 16 TEC (+) 24 NC 32 NC 16 15 14 13 12 11 10 9 7 8 6 5 4 M-PD1(-NC NC NC NC NC NC NC NC NC £ Bench SLED 1 SLED 2 NC NC NC 17 18 19 20 21 22 23 24 25 26 27 28 29 30 31 32

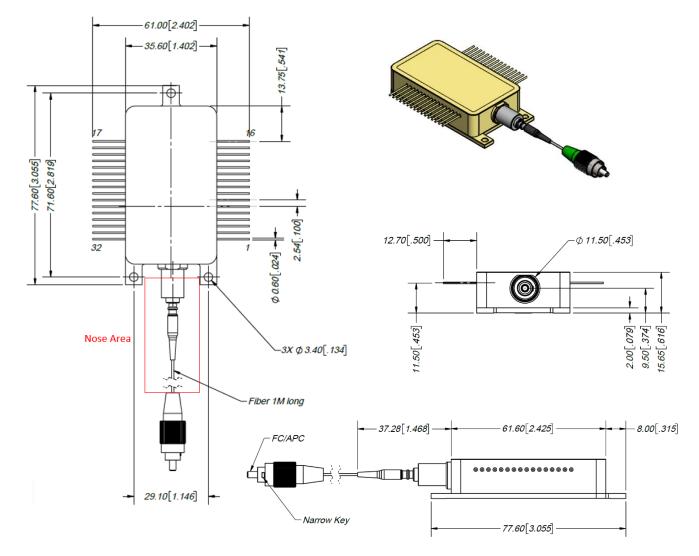
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Luxmux Technology Corporation, 1030-2424 4<sup>th</sup> Street SW, Calgary, Canada, T2S 2T4 sales@luxmux.com, +1 (587) 392-6192, www.luxmux.com



## H. MECHANICAL DIAGRAM



#### I. MOUNTING RECOMMENDATIONS:

The OSE2 can be mounted on a flat cooling surface without having to risk forming the pins. Mounting surface should be flat, with no physical obstructions underneath to cause any discontinuity in the surface flatness. If a heatsink is used, the base of the butterfly package will rest on the surface of a heatsink in order to cool the internal TEC.

Use only the 3mm mounting holes in the case of the BeST-SLED, Luxmux recommends the use of 18-8 Stainless Steel Socket Head Screw 5-40 Thread Size screws. Maximum torque to avoid damage to the device is 13 lb.in. /1.5 Nm. Minimum torque is 9 lb.in/1.1 Nm. Do not use self-tapping screws.

The OSE2 Light Source should be mounted so that mechanical vibrations cannot cause short circuits between leads. AZIMUTH 16 pin, 0.100" pitch Sockets are recommended. The 32 pins will rest on a pair of spring-loaded sockets and be squeezed between the contacts and a plastic clamp.

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## J. SAFETY

All statements regarding safety of operation and technical data will only apply when the unit is operated correctly.

The driver must not be operated in environments susceptible to explosion hazards. Do not obstruct the air ventilation slots. If any parts of the driver, or electronics are broken or exposed, contact Luxmux technical support and do not attempt to operate the unit.

The OSE2 is a Class 1M laser product. It is safe for all conditions of use except when passed through magnifying optics such as microscopes and telescopes. It produces a beam that is divergent. If light is refocused use protective eye wear.

### K. ORDERING CODE

ORDERIN	NG CODE:	LTC	OSE2	SLEDs	FT	DOP	SC	FWHM	cw	LOP	
LTC	Luxmux Technology Corporation										Product Code
OSE2	Best-SLED® OSE G2										Available Options
0022											Taken From Table
SLEDS	SLED center wavelength, choose from one of the models in the table 1300nm, 1340nm, 1390nm, 1430nm, 1480nm, 1550nm, 1615nm, 1680nm [choose up to 6]										
FT	Fiber Type, choose 1: PM: Polarization Maintaining SM: Single Mode FS: Free Space										
DOP	HP: High Degree of Polarization										
sc	Spectral Coverage [nm]										
FWHM	Full Width Half Maximum [nm] (FWHM defined as the bandwidth from the lowest spectral dip)										
cw	Center Wavelength [nm]										
LOP	Light Output Power [mW]										

#LTC-OSE2-1480 1550-PM-HP-1435 1605-170-1520-12 DS 2021 08 05



Part Number	Ordering Code: LTC-OSE2-(SLEDS)-(FT)-(DOP)-(SC)-(FWHM)-(CW)-(LOP)	SLEDs [nm]	FT	SC [nm]	FWHM [nm]	CW [nm]	LOP [mW]
ASM000001	LTC-OSE2-1615_1680-PM-HP-1575_1725-150-1650-12	1615, 1680	PM	1575 - 1725	150	1650	12
ASM000002	LTC-OSE2-1480_1550_1615-PM-HP-1435_1640-205-1538-18	1480, 1550, 1615	PM	1435 - 1640	205	1538	18
ASM000003	LTC-OSE2-1340_1390_1430-PM-HP-1310_1465-155-1388-20	1340, 1390, 1430	PM	1310 - 1465	155	1388	20
ASM000004	LTC-OSE2-1300_1340_1390_1430-PM-HP-1265_1465-200-1365-25	1300, 1340, 1390, 1430	PM	1265 - 1465	200	1365	25
ASM000005	LTC-OSE2-1480_1550_1615_1680-PM-HP-1435_1725-290-1580-25	1480, 1550, 1615, 1680	PM	1435 - 1725	290	1580	25
ASM000006	LTC-OSE2-1300_1340_1390_1430_1480-PM-HP-1265_1500-235-1383-35	1300, 1340, 1390, 1430, 1480	PM	1265 - 1500	235	1383	35
ASM000007	LTC-OSE2-1340_1390_1430_1480_1550-PM-HP-1305_1605-300-1455-35	1340, 1390, 1430, 1480, 1550	PM	1305 - 1605	300	1455	35
ASM000008	LTC-OSE2-1300_1390_1480_1550_1615_1680-PM-HP-1265_1725-460-1495-40	1300, 1390, 1480, 1550, 1615, 1680	PM	1265 - 1725	460	1495	40
ASM000009	LTC-OSE2-1480_1550-PM-HP-1435_1605-170-1520-12	1480, 1550	PM	1435 - 1605	170	1520	12
ASM000010	LTC-OSE2-1340_1390_1430_1480_1550_1615-PM-HP-1310_1640-330-1475-38	1340, 1390, 1430, 1480, 1550, 1615	РМ	1310 - 1640	330	1475	38
ASM000011	LTC-OSE2-1300_1340_1390_1430_1480_1550-PM-HP-1265_1605-340-1435-40	1300, 1340, 1390, 1430, 1480, 1550	PM	1265 - 1605	340	1435	40
ASM000012	LTC-OSE2-1430_1480_1550-PM-HP-1410_1605-195-1508-19	1430, 1480, 1550	PM	1410 - 1605	195	1508	19
ASM000013	LTC-OSE2-1300_1340_1390-PM-HP-1265_1420-155-1343-20	1300, 1340, 1390	PM	1265 - 1420	155	1343	20
ASM000014	LTC-OSE2-1390_1430_1480-PM-HP-1355_1500-145-1428-19	1390, 1430, 1480	РМ	1355 - 1500	145	1428	19
ASM000015	LTC-OSE2-1550_1615_1680-PM-HP-1515_1725-210-1620-18	1550, 1615, 1680	РМ	1515 - 1725	210	1620	18
ASM000016	LTC-OSE2-1300_1340-PM-HP-1265_1365-100-1315-12	1300, 1340	РМ	1265 - 1365	100	1315	12
ASM000017	LTC-OSE2-1390_1480_1550-PM-HP-1340_1610-270-1475-20	1390, 1480, 1550	РМ	1340 - 1610	270	1475	20
ASM000018	LTC-OSE2-1300_1390_1480-PM-HP-1265_1500-235-1383-20	1300, 1390, 1480	PM	1265 - 1500	235	1383	20
ASM000019	LTC-OSE2-1390_1480_1550_1615_1680-PM-HP-1340_1725-385-1533-32	1390, 1480, 1550, 1615, 1680	PM	1340 - 1725	385	1533	32
ASM000020	LTC-OSE2-1550_1615-PM-HP-1530_1630-100-1580-10	1550, 1615	PM	1530 - 1630	100	1580	10
Part Number	Ordering Code: LTC-OSE2-(SLEDS)-(FT)-(DOP)-(SC)-(FWHM)-(CW)-(LOP)	SLEDs [nm]	FT	SC [nm]	FWHM [nm]	CW [nm]	LOP [mW]
Part Number ASM000101	Ordering Code: LTC-OSE2-(SLEDS)-(FT)-(DOP)-(SC)-(FWHM)-(CW)-(LOP) LTC-OSE2-1615 1680-SM-HP-1575 1725-150-1650-12	SLEDs [nm]	FT SM	<b>SC [nm]</b> 1575 - 1725			
					[nm]	[nm]	[mW]
ASM000101	LTC-OSE2-1615_1680-SM-HP-1575_1725-150-1650-12	1615, 1680	SM	1575 - 1725	[nm] 150	[nm] 1650	[mW]
ASM000101 ASM000102	LTC-05E2-1615_1680-SM-HP-1575_1725-150-1650-12 LTC-05E2-1480_1550_1615-SM-HP-1435_1640-205-1538-18	1615, 1680 1480, 1550, 1615	SM SM	1575 - 1725 1435 - 1640	[nm] 150 205	[nm] 1650 1538	[mW] 12 18
ASM000101 ASM000102 ASM000103	LTC-OSE2-1615_1680-SM-HP-1575_1725-150-1650-12 LTC-OSE2-1480_1550_1615-SM-HP-1435_1640-205-1538-18 LTC-OSE2-1340_1390_1430-SM-HP-1310_1465-155-1388-20	1615, 1680 1480, 1550, 1615 1340, 1390, 1430	SM SM SM	1575 - 1725 1435 - 1640 1310 - 1465	[nm] 150 205 155	[nm] 1650 1538 1388	[mW] 12 18 20
ASM000101 ASM000102 ASM000103 ASM000104	LTC-OSE2-1615_1680-SM-HP-1575_1725-150-1650-12 LTC-OSE2-1480_1550_1615-SM-HP-1435_1640-205-1538-18 LTC-OSE2-1340_1390_1430-SM-HP-1310_1465-155-1388-20 LTC-OSE2-1300_1340_1390_1430-SM-HP-1265_1465-200-1365-25	1615, 1680           1480, 1550, 1615           1340, 1390, 1430           1300, 1340, 1390, 1430	SM SM SM SM	1575 - 1725 1435 - 1640 1310 - 1465 1265 - 1465	[nm] 150 205 155 200	[nm] 1650 1538 1388 1365	[mW] 12 18 20 25
ASM000101 ASM000102 ASM000103 ASM000104 ASM000105	LTC-OSE2-1615_1680-SM-HP-1575_1725-150-1650-12 LTC-OSE2-1480_1550_1615-SM-HP-1435_1640-205-1538-18 LTC-OSE2-1340_1390_1430-SM-HP-1310_1465-155-1388-20 LTC-OSE2-1300_1340_1390_1430-SM-HP-1265_1465-200-1365-25 LTC-OSE2-1480_1550_1615_1680-SM-HP-1435_1725-290-1580-25	1615, 1680           1480, 1550, 1615           1340, 1390, 1430           1300, 1340, 1390, 1430           1480, 1550, 1615, 1680	SM SM SM SM SM	1575 - 1725 1435 - 1640 1310 - 1465 1265 - 1465 1435 - 1725	[nm] 150 205 155 200 290	[nm] 1650 1538 1388 1365 1580	[mW] 12 18 20 25 25
ASM000101 ASM000102 ASM000103 ASM000104 ASM000105 ASM000106	LTC-OSE2-1615_1680-SM-HP-1575_1725-150-1650-12 LTC-OSE2-1480_1550_1615-SM-HP-1435_1640-205-1538-18 LTC-OSE2-1340_1390_1430-SM-HP-1310_1465-155-1388-20 LTC-OSE2-1300_1340_1390_1430-SM-HP-1265_1465-200-1365-25 LTC-OSE2-1480_1550_1615_1680-SM-HP-1435_1725-290-1580-25 LTC-OSE2-1300_1340_1390_1430_1480-SM-HP-1265_1500-235-1383-35	1615, 1680           1480, 1550, 1615           1340, 1390, 1430           1300, 1340, 1390, 1430           1480, 1550, 1615, 1680           1300, 1340, 1390, 1430, 1480	SM SM SM SM SM SM	1575 - 1725 1435 - 1640 1310 - 1465 1265 - 1465 1435 - 1725 1265 - 1500	[nm] 150 205 155 200 290 235	[nm] 1650 1538 1388 1365 1580 1383	[mW] 12 18 20 25 25 35
ASM000101 ASM000102 ASM000103 ASM000104 ASM000105 ASM000106 ASM000107	LTC-OSE2-1615_1680-SM-HP-1575_1725-150-1650-12 LTC-OSE2-1480_1550_1615-SM-HP-1435_1640-205-1538-18 LTC-OSE2-1340_1390_1430-SM-HP-1310_1465-155-1388-20 LTC-OSE2-1300_1340_1390_1430-SM-HP-1265_1465-200-1365-25 LTC-OSE2-1480_1550_1615_1680-SM-HP-1435_1725-290-1580-25 LTC-OSE2-1300_1340_1390_1430_1480-SM-HP-1265_1500-235-1383-35 LTC-OSE2-1340_1390_1430_1480_1550-SM-HP-1305_1605-300-1455-35	1615, 1680           1480, 1550, 1615           1340, 1390, 1430           1300, 1340, 1390, 1430           1480, 1550, 1615, 1680           1300, 1340, 1390, 1430, 1480           1340, 1390, 1430, 1480, 1550           1300, 1390, 1430, 1480, 1550           1300, 1390, 1430, 1480, 1550	SM SM SM SM SM SM SM SM	1575 - 1725 1435 - 1640 1310 - 1465 1265 - 1465 1435 - 1725 1265 - 1500 1305 - 1605	[nm] 150 205 155 200 290 235 300	[nm] 1650 1538 1388 1365 1580 1383 1383	[mW] 12 18 20 25 25 35 35 35
ASM000101 ASM000102 ASM000103 ASM000104 ASM000105 ASM000106 ASM000107 ASM000108	LTC-OSE2-1615_1680-SM-HP-1575_1725-150-1650-12           LTC-OSE2-1480_1550_1615-SM-HP-1435_1640-205-1538-18           LTC-OSE2-1340_1390_1430-SM-HP-1310_1465-155-1388-20           LTC-OSE2-1300_1340_1390_1430-SM-HP-1265_1465-200-1365-25           LTC-OSE2-1480_1550_1615_1680-SM-HP-1435_1725-290-1580-25           LTC-OSE2-1300_1340_1390_1430_1480-SM-HP-1265_1500-235-1383-35           LTC-OSE2-1300_1340_1390_1430_1480_1550-SM-HP-1305_1605-300-1455-35           LTC-OSE2-1300_1390_1480_1550_1615_1680-SM-HP-1265_1725-460-1495-40	1615, 1680           1480, 1550, 1615           1340, 1390, 1430           1300, 1340, 1390, 1430           1480, 1550, 1615, 1680           1300, 1340, 1390, 1430, 1480, 1550           1300, 1390, 1430, 1480, 1550           1300, 1390, 1430, 1480, 1550           1300, 1390, 1430, 1480, 1550           1340, 1390, 1430, 1480, 1550, 1615, 1680           1480, 1550           1340, 1390, 1430, 1480, 1550, 1615, 1680	SM SM SM SM SM SM SM SM SM	1575 - 1725 1435 - 1640 1310 - 1465 1265 - 1465 1435 - 1725 1265 - 1500 1305 - 1605 1265 - 1725	[nm] 150 205 155 200 290 235 300 460	[nm] 1650 1538 1388 1365 1580 1383 1455 1495	[mW] 12 18 20 25 25 35 35 35 40
ASM000101 ASM000102 ASM000103 ASM000104 ASM000105 ASM000106 ASM000107 ASM000108	LTC-OSE2-1615_1680-SM-HP-1575_1725-150-1650-12 LTC-OSE2-1480_1550_1615-SM-HP-1435_1640-205-1538-18 LTC-OSE2-1340_1390_1430-SM-HP-1310_1465-155-1388-20 LTC-OSE2-1340_1390_1430-SM-HP-1455_1465-200-1365-25 LTC-OSE2-1480_1550_1615_1680-SM-HP-1435_1725-290-1580-25 LTC-OSE2-1340_1390_1430_1480-SM-HP-1265_1500-235-1383-35 LTC-OSE2-1340_1390_1430_1480_1550-SM-HP-1305_1605-300-1455-35 LTC-OSE2-1340_1390_1480_1550_1615_1680-SM-HP-1265_1725-460-1495-40 LTC-OSE2-1480_1550-SM-HP-1435_1605-170-1520-12	1615, 1680           1480, 1550, 1615           1340, 1390, 1430           1300, 1340, 1390, 1430           1480, 1550, 1615, 1680           1300, 1340, 1390, 1430, 1480           1340, 1390, 1430, 1480, 1550           1300, 1390, 1430, 1480, 1550           1300, 1390, 1430, 1480, 1550, 1615, 1680           1480, 1550           1340, 1390, 1430, 1480, 1550, 1615, 1680           1480, 1550           1340, 1390, 1430, 1480, 1550, 1615, 1680           1480, 1550           1340, 1390, 1430, 1480, 1550, 1615           1615           1300, 1340, 1390, 1430, 1480, 1430, 1480, 1550, 1615	SM SM SM SM SM SM SM SM SM	1575 - 1725 1435 - 1640 1310 - 1465 1265 - 1465 1435 - 1725 1265 - 1500 1305 - 1605 1265 - 1725 1435 - 1605	[nm] 150 205 155 200 290 235 300 460 170	[nm] 1650 1538 1388 1365 1580 1383 1455 1495 1495	[mW] 12 18 20 25 25 35 35 35 40 12
ASM000101 ASM000102 ASM000103 ASM000104 ASM000105 ASM000106 ASM000107 ASM000109 ASM000110	LTC-OSE2-1615_1680-SM-HP-1575_1725-150-1650-12 LTC-OSE2-1480_1550_1615-SM-HP-1435_1640-205-1538-18 LTC-OSE2-1340_1390_1430-SM-HP-1310_1465-155-1388-20 LTC-OSE2-1300_1340_1390_1430-SM-HP-1265_1465-200-1365-25 LTC-OSE2-1300_1340_1390_1430_1480-SM-HP-135_1725-290-1580-25 LTC-OSE2-1340_1390_1430_1480_1550-SM-HP-1305_1605-300-1455-35 LTC-OSE2-1340_1390_1430_1480_1550-SM-HP-1305_1605-300-1455-35 LTC-OSE2-1340_1390_1430_1550_1615_1680-SM-HP-1265_1725-460-1495-40 LTC-OSE2-1480_1550-SM-HP-1435_1605-170-1520-12 LTC-OSE2-1340_1390_1430_1480_1550_1615-SM-HP-1310_1640-330-1475-38	1615, 1680           1480, 1550, 1615           1340, 1390, 1430           1300, 1340, 1390, 1430           1480, 1550, 1615, 1680           1300, 1340, 1390, 1430, 1480           1300, 1340, 1390, 1430, 1480, 1550           1300, 1390, 1430, 1480, 1550, 1615, 1680           1480, 1550           1340, 1390, 1430, 1480, 1550, 1615, 1680           1480, 1550           1340, 1390, 1430, 1480, 1550, 1615, 1615           1615	SM SM SM SM SM SM SM SM SM SM	1575 - 1725 1435 - 1640 1310 - 1465 1265 - 1465 1435 - 1725 1265 - 1500 1305 - 1605 1265 - 1725 1435 - 1605 1310 - 1640	[nm] 150 205 155 200 290 235 300 460 170 330	[nm] 1650 1538 1388 1365 1580 1383 1455 1495 1495 1520 1475	[mW] 12 18 20 25 35 35 40 12 38
ASM000101 ASM000102 ASM000103 ASM000104 ASM000105 ASM000106 ASM000107 ASM000108 ASM000109 ASM000110 ASM000111	LTC-OSE2-1615_1680-SM-HP-1575_1725-150-1650-12 LTC-OSE2-1480_1550_1615-SM-HP-1435_1640-205-1538-18 LTC-OSE2-1340_1390_1430-SM-HP-1310_1465-155-1388-20 LTC-OSE2-1300_1340_1390_1430-SM-HP-1265_1465-200-1365-25 LTC-OSE2-1300_1340_1390_1430_1480-SM-HP-1435_1725-290-1580-25 LTC-OSE2-1340_1390_1430_1480_SM-HP-1435_1605-300-1455-35 LTC-OSE2-1340_1390_1430_1480_1550-SM-HP-1305_1605-300-1455-35 LTC-OSE2-1340_1390_1430_1480_1550_1615_1680-SM-HP-1265_1725-460-1495-40 LTC-OSE2-1340_1390_1430_1480_1550_1615-SM-HP-1305_1605-300-1475-38 LTC-OSE2-1340_1390_1430_1480_1550_1615-SM-HP-1310_1640-330-1475-38 LTC-OSE2-1340_1390_1430_1480_1550_SM-HP-1265_1605-340-1435-40	1615, 1680           1480, 1550, 1615           1340, 1390, 1430           1300, 1340, 1390, 1430           1480, 1550, 1615, 1680           1300, 1340, 1390, 1430, 1480           1300, 1340, 1390, 1430, 1480, 1550           1300, 1390, 1430, 1480, 1550, 1615, 1660           1480, 1550           1340, 1390, 1430, 1480, 1550, 1615, 1660           1480, 1550           1340, 1390, 1430, 1480, 1550, 1615           1615           1300, 1340, 1390, 1430, 1480, 1550, 1615           1550	SM SM SM SM SM SM SM SM SM SM SM	1575 - 1725 1435 - 1640 1310 - 1465 1265 - 1465 1435 - 1725 1265 - 1500 1305 - 1605 1265 - 1725 1435 - 1605 1310 - 1640	[nm] 150 205 155 200 290 235 300 460 170 330 340	[nm] 1650 1538 1388 1365 1580 1383 1455 1495 1520 1475 1425	[mW] 12 18 20 25 25 35 35 40 12 38 40
ASM000101 ASM000102 ASM000103 ASM000104 ASM000105 ASM000106 ASM000107 ASM000108 ASM000109 ASM000110 ASM000111	LTC-OSE2-1615_1680-SM-HP-1575_1725-150-1650-12 LTC-OSE2-1480_1550_1615-SM-HP-1435_1640-205-1538-18 LTC-OSE2-1340_1390_1430-SM-HP-1435_1465-205-1388-20 LTC-OSE2-1340_1390_1430-SM-HP-1455_1465-200-1365-25 LTC-OSE2-1480_1550_1615_1680-SM-HP-1435_1725-290-1580-25 LTC-OSE2-1340_1390_1430_1480-SM-HP-1265_1500-235-1383-35 LTC-OSE2-1340_1390_1430_1480_1550-SM-HP-1305_1605-300-1455-35 LTC-OSE2-1340_1390_1480_1550_1615_1680-SM-HP-1265_1725-460-1495-40 LTC-OSE2-1340_1390_1430_1480_1550_1615_SM-HP-1310_1640-330-1475-38 LTC-OSE2-1340_1390_1430_1480_1550_1615-SM-HP-1310_1640-330-1475-38 LTC-OSE2-1300_1340_1390_1430_1480_1550-SM-HP-1265_1605-340-1435-40 LTC-OSE2-1430_1340_1350-SM-HP-1410_1605-195-1508-19	1615, 1680           1480, 1550, 1615           1340, 1390, 1430           1300, 1340, 1390, 1430           1480, 1550, 1615, 1680           1300, 1340, 1390, 1430, 1480           1340, 1390, 1430, 1480, 1550           1300, 1390, 1430, 1480, 1550           1340, 1390, 1430, 1480, 1550           1340, 1390, 1430, 1480, 1550, 1615, 1680           1480, 1550           1340, 1390, 1430, 1480, 1550, 1615           150           1340, 1390, 1430, 1480, 1550, 1615           150           1340, 1390, 1430, 1480, 1550, 1615           1430, 1340, 1390, 1430, 1480, 1550           1430, 1340, 1390, 1430, 1480, 1550	SM SM SM SM SM SM SM SM SM SM SM SM	1575 - 1725 1435 - 1640 1310 - 1465 1265 - 1465 1435 - 1725 1265 - 1500 1305 - 1605 1265 - 1725 1435 - 1605 1310 - 1640 1265 - 1605 1410 - 1605	[nm] 150 205 200 290 235 300 460 170 330 340 195	[m] 1650 1538 1388 1365 1580 1383 1455 1495 1520 1475 1425	[mW] 12 18 20 25 35 35 40 12 38 40 19
ASM000101 ASM000102 ASM000103 ASM000104 ASM000105 ASM000107 ASM000108 ASM000109 ASM000110 ASM000111 ASM000112 ASM000113	LTC-OSE2-1615_1680-SM-HP-1575_1725-150-1650-12 LTC-OSE2-1480_1550_1615-SM-HP-1435_1640-205-1538-18 LTC-OSE2-1340_1390_1430-SM-HP-1310_1465-155-1388-20 LTC-OSE2-1340_1390_1430-SM-HP-1265_1465-200-1365-25 LTC-OSE2-1340_1390_1430_1480-SM-HP-1435_1725-290-1580-25 LTC-OSE2-1340_1390_1430_1480_1550-SM-HP-1305_1605-300-1455-35 LTC-OSE2-1340_1390_1430_1480_1550-SM-HP-1305_1605-300-1455-35 LTC-OSE2-1340_1390_1480_1550_1615_1680-SM-HP-1265_1725-460-1495-40 LTC-OSE2-1340_1390_1480_1550_1615_1680-SM-HP-1265_1725-460-1495-40 LTC-OSE2-1340_1390_1480_1550_1615-SM-HP-1310_1640-330-1475-38 LTC-OSE2-1340_1390_1430_1480_1550_SM-HP-1265_1605-340-1435-40 LTC-OSE2-1340_1390_1430_1480_1550-SM-HP-1265_1508-19 LTC-OSE2-1430_1480_1550-SM-HP-1410_1605-195-1508-19 LTC-OSE2-1340_1340_1390-SM-HP-1410_1605-195-1508-19	1615, 1680           1480, 1550, 1615           1340, 1390, 1430           1300, 1340, 1390, 1430           1480, 1550, 1615, 1680           1300, 1340, 1390, 1430, 1430, 1480           1300, 1340, 1390, 1430, 1480, 1550           1300, 1390, 1430, 1480, 1550, 1615, 1680           1340, 1390, 1430, 1480, 1550, 1615, 1680           1340, 1390, 1430, 1480, 1550, 1615, 1615           1340, 1390, 1430, 1430, 1480, 1550, 1615           1300, 1340, 1390, 1430, 1480, 1550, 1615           1300, 1340, 1390, 1430, 1480, 1550, 1615           1300, 1340, 1390, 1430, 1480, 1550           1300, 1340, 1390	SM SM SM SM SM SM SM SM SM SM SM SM SM	1575 - 1725 1435 - 1640 1310 - 1465 1265 - 1465 1265 - 1500 1305 - 1605 1265 - 1725 1435 - 1605 1310 - 1640 1265 - 1605 1410 - 1605 1265 - 1420	[nm] 150 205 200 290 235 300 460 170 330 340 195 155	[mm] 1650 1538 1388 1365 1580 1383 1455 1495 1495 1495 1495 1495 1520 1475 1435 1435	[mW] 12 18 20 25 35 35 35 40 12 38 40 19 20
ASM000101 ASM000102 ASM000103 ASM000104 ASM000105 ASM000107 ASM000108 ASM000109 ASM000110 ASM000111 ASM000112 ASM000113 ASM000114	LTC-OSE2-1615_1680-SM-HP-1575_1725-150-1650-12 LTC-OSE2-1340_1550_1615-SM-HP-1435_1640-205-1538-18 LTC-OSE2-1340_1390_1430-SM-HP-1310_1465-155-1388-20 LTC-OSE2-1300_1340_1390_1430-SM-HP-1265_1465-200-1365-25 LTC-OSE2-1300_1340_1390_1430_1480-SM-HP-1265_1500-235-1383-35 LTC-OSE2-1340_1390_1430_1480-1550-SM-HP-1305_1605-300-1455-35 LTC-OSE2-1340_1390_1430_1480_1550_1615_1680-SM-HP-1265_1725-460-1495-40 LTC-OSE2-1340_1390_1430_1480_1550_1615_1680-SM-HP-1305_1605-300-1455-35 LTC-OSE2-1340_1390_1430_1480_1550_1615-1680-SM-HP-1265_1725-460-1495-40 LTC-OSE2-1340_1390_1430_1480_1550_1615-SM-HP-1310_1640-330-1475-38 LTC-OSE2-1340_1390_1430_1480_1550-SM-HP-1310_1640-330-1475-38 LTC-OSE2-1340_1390_1430_1480_1550-SM-HP-1310_1640-330-1475-38 LTC-OSE2-1340_1390_1430_1480_1550-195-1508-19 LTC-OSE2-1300_1340_1390-SM-HP-1265_1420-155-1343-20 LTC-OSE2-1300_1340_1390-SM-HP-1355_1500-145-1428-19	1615, 1680           1480, 1550, 1615           1340, 1390, 1430           1300, 1340, 1390, 1430           1480, 1550, 1615, 1680           1300, 1340, 1390, 1430, 1480           1300, 1340, 1390, 1430, 1480, 1550           1300, 1390, 1430, 1480, 1550, 1615, 1680           1340, 1390, 1430, 1480, 1550, 1615, 1680           1340, 1390, 1430, 1480, 1550, 1615, 1680           1340, 1390, 1430, 1480, 1550, 1615, 1680           1340, 1390, 1430, 1480, 1550, 1615, 1615           1300, 1340, 1390, 1430, 1480, 1550, 1615           1300, 1340, 1390, 1430, 1480, 1550           1300, 1340, 1390           1300, 1340, 1390           1390, 1430, 1480	SM SM SM SM SM SM SM SM SM SM SM SM SM	1575 - 1725 1435 - 1640 1310 - 1465 1265 - 1465 1265 - 1725 1265 - 1725 1305 - 1605 1310 - 1640 1265 - 1605 1310 - 1640 1265 - 1605 1410 - 1605 1265 - 1420	[nm] 150 205 155 200 290 235 300 460 170 330 340 195 155 145	[mm] 1650 1538 1388 1365 1580 1383 1455 1495	[mW] 12 18 20 25 35 35 35 40 12 38 40 19 20 19
ASM000101 ASM000102 ASM000103 ASM000104 ASM000105 ASM000107 ASM000108 ASM000109 ASM000110 ASM000111 ASM0001112 ASM000113 ASM000114 ASM000115	LTC-OSE2-1615_1680-SM-HP-1575_1725-150-1650-12           LTC-OSE2-1340_1350_1415-SM-HP-1435_1640-205-1538-18           LTC-OSE2-1340_1390_1430-SM-HP-1310_1465-155-1388-20           LTC-OSE2-1300_1340_1390_1430-SM-HP-1265_1465-200-1365-25           LTC-OSE2-1300_1340_1390_1430_1480-SM-HP-1265_150-235-1383-35           LTC-OSE2-1300_1340_1390_1430_1480-SM-HP-1305_1605-300-1455-35           LTC-OSE2-1300_1340_1390_1430_1480_1550-SM-HP-1305_1605-300-1455-35           LTC-OSE2-1300_1390_1480_1550_1615_1680-SM-HP-1265_1725-460-1495-40           LTC-OSE2-1340_1390_1430_1480_1550_1615-SM-HP-1301_1640-330-1475-38           LTC-OSE2-1340_1390_1430_1480_1550_1615-SM-HP-1310_1640-330-1475-38           LTC-OSE2-1340_1390_1430_1480_1550_50-1615-SM-HP-1265_1605-340-1435-40           LTC-OSE2-1340_1390_1430_1480_1550_50-151-1520-12           LTC-OSE2-1340_1390_1430_1480_1550_50-1615-SM-HP-1310_1640-330-1475-38           LTC-OSE2-1340_1390_1430_1480_1550-1615-SM-HP-1310_1640-330-1475-38           LTC-OSE2-1340_1390_1430_1480_1550-SM-HP-1265_1605-340-1435-40           LTC-OSE2-1340_1390_1430_1480_1550-SM-HP-1265_1605-340-1435-40           LTC-OSE2-1340_1340_1390_SM-HP-1265_1420-155-1343-20           LTC-OSE2-1390_1430_1480_SM-HP-1355_1500-145-1428-19           LTC-OSE2-1550_1615_1680-SM-HP-155_1725-210-1620-18	1615, 1680           1480, 1550, 1615           1340, 1390, 1430           1300, 1340, 1390, 1430           1480, 1550, 1615, 1680           1300, 1340, 1390, 1430, 1480           1300, 1340, 1390, 1430, 1480, 1550           1300, 1390, 1430, 1480, 1550           1300, 1390, 1430, 1480, 1550, 1615, 1680           1480, 1550           1340, 1390, 1430, 1480, 1550, 1615           1650           1340, 1390, 1430, 1480, 1550, 1615           1615           1300, 1340, 1390, 1430, 1480, 1550           1430, 1480, 1550           1300, 1340, 1390           1390, 1430, 1480           1550, 1615, 1680	SM SM SM SM SM SM SM SM SM SM SM SM SM	1575 - 1725 1435 - 1640 1310 - 1465 1265 - 1465 1265 - 1725 1265 - 1500 1305 - 1605 1265 - 1725 1435 - 1605 1310 - 1640 1265 - 1605 1410 - 1605 1265 - 1420 1355 - 1500 1515 - 1725	[nm]           150           205           155           200           290           235           300           460           170           330           340           195           155           145           200	[mm] 1650 1538 1388 1365 1580 1383 1455 1495 1495 1495 1495 1495 1500 1475 1435 1438 1438 1343	[mW] 12 18 20 25 35 35 40 12 38 40 19 19 20 19 18
ASM000101 ASM000102 ASM000103 ASM000104 ASM000105 ASM000106 ASM000107 ASM000109 ASM000110 ASM000110 ASM0001112 ASM000113 ASM000114 ASM000115 ASM000116	LTC-OSE2-1615_1680-SM-HP-1575_1725-150-1650-12 LTC-OSE2-1340_1390_1430-SM-HP-1435_1640-205-1538-18 LTC-OSE2-1340_1390_1430-SM-HP-1310_1465-155-1388-20 LTC-OSE2-1300_1340_1390_1430-SM-HP-1265_1465-200-1365-25 LTC-OSE2-1300_1340_1390_1430_1480-SM-HP-1265_1500-235-1383-35 LTC-OSE2-1340_1390_1430_1480_1550-SM-HP-1305_1605-300-1455-35 LTC-OSE2-1340_1390_1430_1480_1550_1615_1680-SM-HP-1265_1725-460-1495-40 LTC-OSE2-1340_1390_1430_1480_1550_1615_1680-SM-HP-1265_1725-460-1495-40 LTC-OSE2-1340_1390_1430_1480_1550_1615_1680-SM-HP-1265_1725-460-1495-40 LTC-OSE2-1340_1390_1430_1480_1550_1615_SM-HP-1301_1640-330-1475-38 LTC-OSE2-1340_1390_1430_1480_1550_1615-SM-HP-1310_1640-330-1475-38 LTC-OSE2-1340_1390_1430_1480_1550_1615-150-HP-1265_1605-340-1435-40 LTC-OSE2-1340_1390_1430_1480_1550-SM-HP-1265_1508-19 LTC-OSE2-1340_1390_M-HP-1265_1420-155-1343-20 LTC-OSE2-1390_1430_1480_SM-HP-1355_1500-145-1428-19 LTC-OSE2-1350_1615_1680-SM-HP-1355_1500-145-1428-19 LTC-OSE2-1300_1340_1340_1340-SM-HP-1355_1500-145-1428-19 LTC-OSE2-1300_1340_1480-SM-HP-1355_1500-145-1428-19 LTC-OSE2-1300_1340_1480-SM-HP-1265_1365-100-1315-12	1615, 1680           1480, 1550, 1615           1340, 1390, 1430           1300, 1340, 1390, 1430           1480, 1550, 1615, 1680           1300, 1340, 1390, 1430, 1480           1300, 1340, 1390, 1430, 1480, 1550           1300, 1390, 1430, 1480, 1550, 1615, 1680           1480, 1550           1340, 1390, 1430, 1480, 1550, 1615           1680           1480, 1550           1300, 1340, 1390, 1430, 1480, 1550, 1615           1635           1300, 1340, 1390, 1430, 1480, 1550           1300, 1340, 1390           1390, 1430, 1480           1550, 1615, 1680           1300, 1340	SM SM SM SM SM SM SM SM SM SM SM SM SM S	1575 - 1725           1435 - 1640           1310 - 1465           1265 - 1465           1435 - 1725           1265 - 1500           1305 - 1605           1265 - 1725           1435 - 1605           1310 - 1640           1265 - 1605           1410 - 1605           1265 - 1420           1355 - 1500           1515 - 1725           1265 - 1305	[nm]           150           205           155           200           235           300           460           170           330           340           195           155           145           210           100	[mm] 1650 1538 1388 1365 1580 1383 1455 1495 1495 1495 1495 1495 1495 1495 1426 1435 1428 1428 1428	[mW] 12 18 20 25 25 35 35 35 40 12 38 40 19 20 19 18 18 20
ASM000101 ASM000102 ASM000103 ASM000104 ASM000105 ASM000106 ASM000107 ASM000108 ASM000110 ASM000111 ASM0001112 ASM000113 ASM000115 ASM000115 ASM000116	LTC-OSE2-1615_1680-SM-HP-1575_1725-150-1650-12 LTC-OSE2-1480_1550_1615-SM-HP-1435_1640-205-1538-18 LTC-OSE2-1340_1390_1430-SM-HP-1310_1465-155-1388-20 LTC-OSE2-1300_1340_1390_1430-SM-HP-1265_1465-200-1365-25 LTC-OSE2-1300_1340_1390_1430_1480-SM-HP-1435_1725-290-1580-25 LTC-OSE2-1300_1340_1390_1430_1480-SM-HP-1305_1605-300-1455-35 LTC-OSE2-1300_1390_1430_1480_1550-SM-HP-1305_1605-300-1455-35 LTC-OSE2-1300_1390_1430_1480_1550_1615_1680-SM-HP-1265_1725-460-1495-40 LTC-OSE2-1300_1390_1430_1480_1550_1615_1680-SM-HP-1265_1725-460-1495-40 LTC-OSE2-1300_1390_1430_1480_1550_1615-SM-HP-1301_1640-330-1475-38 LTC-OSE2-1300_1340_1390_1430_1480_1550_SM-HP-1265_1605-340-1435-40 LTC-OSE2-1300_1340_1390_1430_1480_1550-SM-HP-1265_1605-340-1435-40 LTC-OSE2-1300_1340_1390_1430_1480_1550-195-1508-19 LTC-OSE2-1300_1340_1390-SM-HP-1265_1343-20 LTC-OSE2-1300_1340_1390-SM-HP-1515_1725-210-1620-18 LTC-OSE2-1300_1340-SM-HP-1265_1365-100-1315-12 LTC-OSE2-1300_1340_1340-SM-HP-1265_1365-100-1315-12 LTC-OSE2-1300_1340_1350-SM-HP-1265_1365-100-1315-12 LTC-OSE2-1300_1340_1550-SM-HP-1305_100-1315-12 LTC-OSE2-1300_1340_1550-SM-HP-1305_100-1315-12 LTC-OSE2-1300_1340_1550-SM-HP-1265_1365-100-1315-12 LTC-OSE2-1300_1340-SM-HP-1265_1365-100-1315-12 LTC-OSE2-1300_1340_1550-SM-HP-1305_100-1315-12 LTC-OSE2-1300_1340_1550-SM-HP-1305_100-1315-12 LTC-OSE2-1300_1340_1550-SM-HP-1305_100-1315-12 LTC-OSE2-1300_1340_1550-SM-HP-1305_100-1315-12 LTC-OSE2-1300_1340_1550-SM-HP-1300_1610-270-1475-20	1615, 1680           1480, 1550, 1615           1340, 1390, 1430           1300, 1340, 1390, 1430           1300, 1340, 1390, 1430           1300, 1340, 1390, 1430, 1480           1300, 1340, 1390, 1430, 1480, 1550           1300, 1390, 1430, 1480, 1550           1340, 1390, 1430, 1480, 1550, 1615, 1680           1340, 1390, 1430, 1480, 1550, 1615           1680           1480, 1550           1300, 1340, 1390, 1430, 1480, 1550, 1615           1615           1300, 1340, 1390, 1430, 1480, 1550           1300, 1340, 1390           1390, 1430, 1480           1550, 1615, 1680           1300, 1340           1300, 1340, 1390           1390, 1480, 1550	SM SM SM SM SM SM SM SM SM SM SM SM SM S	1575 - 1725           1435 - 1640           1310 - 1465           1265 - 1465           1265 - 1725           1265 - 1500           1305 - 1605           1265 - 1725           1435 - 1605           1310 - 1640           1265 - 1605           1410 - 1605           1265 - 13605           1515 - 1725           1265 - 1365           1305 - 1365	[nm]           150           205           155           200           290           235           300           460           170           330           340           155           145           210           100           270	[nm]           1650           1538           1385           1365           1383           1455           1495           1495           1475           1438           1438           1435           1435           1435           1435           1435           1435           1435           1435           1435           1435           1435           1343           1428           1620           1315           1475	[mW] 12 18 20 25 35 35 35 35 40 12 38 40 19 20 19 18 12 20 19

#LTC-OSE2-1480\_1550-PM-HP-1435\_1605-170-1520-12\_DS\_2021\_08\_05



Part Number	Ordering Code: LTC-OSE2-{SLEDS}-{FT}-{DOP}-{SC}-{FWHM}-{CW}-{LOP}	SLEDs [nm]	FT	SC [nm]	FWHM [nm]	CW [nm]	LOP [mW]
ASM000201	LTC-OSE2-1615_1680-FS-HP-1575_1725-150-1650-35	1615, 1680	FS	1575 – 1725	150	1650	35
ASM000202	LTC-OSE2 -1480_1550_1615-FS-HP-1435_1640-205-1538-55	1480, 1550, 1615	FS	1435 - 1640	205	1538	55
ASM000203	LTC-OSE2-1340_1390_1430-FS-HP-1310_1465-155-1388-65	1340, 1390, 1430	FS	1310 - 1465	155	1388	65
ASM000204	LTC-OSE2-1300_1340_1390_1430-FS-HP-1265_1465-200-1365-90	1300, 1340, 1390, 1430	FS	1265 – 1465	200	1365	90
ASM000205	LTC-OSE2-1480_1550_1615_1680-FS-HP-1435_1725-290-1580-80	1480, 1550, 1615, 1680	FS	1435 – 1725	290	1580	80
ASM000206	LTC-OSE2-1300_1340_1390_1430_1480-FS-HP-1265_1500-235-1383-115	1300, 1340, 1390, 1430, 1480	FS	1265 - 1500	235	1383	115
ASM000207	LTC-OSE2-1340_1390_1430_1480_1550-FS-HP-1305_1605-300-1455-110	1340, 1390, 1430, 1480, 1550	FS	1305 - 1605	300	1455	110
ASM000208	LTC-OSE2-1300_1390_1480_1550_1615_1680-FS-HP-1265_1725-460-1495-125	1300, 1390, 1480, 1550, 1615, 1680	FS	1265 – 1725	460	1495	125
ASM000209	LTC-OSE2-1480_1550-FS-HP-1435_1605-170-1520-45	1480, 1550	FS	1435 - 1605	170	1520	45
ASM000210	LTC-OSE2-1340_1390_1430_1480_1550_1615-FS-HP-1310_1640-330-1475-120	1340, 1390, 1430, 1480, 1550, 1615	FS	1310 - 1640	330	1475	120
ASM000211	LTC-OSE2-1300_1340_1390_1430_1480_1550-FS-HP-1265_1605-340-1435-130	1300, 1340, 1390, 1430, 1480, 1550	FS	1265 - 1605	340	1435	130
ASM000212	LTC-OSE2-1430_1480_1550-FS-HP-1410_1605-195-1508-60	1430, 1480, 1550	FS	1410 - 1605	195	1508	60
ASM000213	LTC-OSE2-1300_1340_1390-FS-HP-1265_1420-155-1343-70	1300, 1340, 1390	FS	1265 – 1420	155	1343	70
ASM000214	LTC-OSE2-1390_1430_1480-FS-HP-1355_1500-145-1428-65	1390, 1430, 1480	FS	1355 – 1500	145	1428	65
ASM000215	LTC-OSE2-1550_1615_1680-FS-HP-1515_1725-210-1620-55	1550, 1615, 1680	FS	1515 – 1725	210	1620	55
ASM000216	LTC-OSE2-1300_1340-FS-HP-1265_1365-100-1315-50	1300, 1340	FS	1265 - 1365	100	1315	50
ASM000217	LTC-OSE2-1390_1480_1550-FS-HP-1340_1610-270-1475-60	1390, 1480, 1550	FS	1340 - 1610	270	1475	60
ASM000218	LTC-OSE2-1300_1390_1480-FS-HP-1265_1500-235-1383-70	1300, 1390, 1480	FS	1265 – 1500	235	1383	70
ASM000219	LTC-OSE2-1390_1480_1550_1615_1680-FS-HP-1340_1725-385-1533-100	1390, 1480, 1550, 1615, 1680	FS	1340 - 1725	385	1533	100
ASM000220	LTC-OSE2-1550_1615-FS-HP-1530_1630-100-1580-30	1550, 1615	FS	1530 – 1630	100	1580	30

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